查询REC2.2-0505DRW/H1供应商

## Features

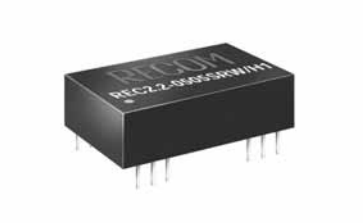
**Regulated Converters**

- 2.2W DIP Package
- 1kVDC Isolation
- Regulated Output
- Wide Input Range 2 : 1 and 4 : 1
- UL94V-0 Package Material
- Continuous Short Circuit Protection
- Cost Effective
- 100% Burned In
- Efficiency to 84%

**ECONOLINE**
DC/DC-Converter

# REC2.2-S_DRW/H1 Series

## 2.2 Watt DIP24 Single & Dual Output



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### Selection Guide

| Part Number DIP24 | Input Voltage (VDC) | Output Voltage (VDC) | Output Current (mA) |
|---|---|---|---|
| REC2.2-xx3.3SRW/H1 | 4.5 - 9, 9 - 18, 18 - 36, 36 - 72 | 3.3 | 600 |
| REC2.2-xx05SRW/H1 | 4.5 - 9, 9 - 18, 18 - 36, 36 - 72 | 5 | 440 |
| REC2.2-xx09SRW/H1 | 4.5 - 9, 9 - 18, 18 - 36, 36 - 72 | 9 | 244 |
| REC2.2-xx12SRW/H1 | 4.5 - 9, 9 - 18, 18 - 36, 36 - 72 | 12 | 183 |
| REC2.2-xx15SRW/H1 | 4.5 - 9, 9 - 18, 18 - 36, 36 - 72 | 15 | 146 |
| REC2.2-xx3.3DRW/H1 | 4.5 - 9, 9 - 18, 18 - 36, 36 - 72 | ±3.3 | ±300 |
| REC2.2-xx05DRW/H1 | 4.5 - 9, 9 - 18, 18 - 36, 36 - 72 | ±5 | ±220 |
| REC2.2-xx09DRW/H1 | 4.5 - 9, 9 - 18, 18 - 36, 36 - 72 | ±9 | ±122 |
| REC2.2-xx12DRW/H1 | 4.5 - 9, 9 - 18, 18 - 36, 36 - 72 | ±12 | ±91 |
| REC2.2-xx15DRW/H1 | 4.5 - 9, 9 - 18, 18 - 36, 36 - 72 | ±15 | ±73 |
| REC2.2-xx3.3SRWZ/H1 | 9 - 36, 18 - 72 | 3.3 | 600 |
| REC2.2-xx05SRWZ/H1 | 9 - 36, 18 - 72 | 5 | 440 |
| REC2.2-xx09SRWZ/H1 | 9 - 36, 18 - 72 | 9 | 244 |
| REC2.2-xx12SRWZ/H1 | 9 - 36, 18 - 72 | 12 | 183 |
| REC2.2-xx15SRWZ/H1 | 9 - 36, 18 - 72 | 15 | 146 |
| REC2.2-xx3.3DRWZ/H1 | 9 - 36, 18 - 72 | ±3.3 | ±300 |
| REC2.2-xx05DRWZ/H1 | 9 - 36, 18 - 72 | ±5 | ±220 |
| REC2.2-xx09DRWZ/H1 | 9 - 36, 18 - 72 | ±9 | ±122 |
| REC2.2-xx12DRWZ/H1 | 9 - 36, 18 - 72 | ±12 | ±91 |
| REC2.2-xx15DRWZ/H1 | 9 - 36, 18 - 72 | ±15 | ±73 |

**2:1** Input
(REC2.2-S/DRW/H1)
xx = 4.5-9Vin = 05
xx = 9-18Vin = 12
xx = 18-36Vin = 24
xx = 36-72Vin = 48

**4:1** Input
(REC2.2-S/DRWZ/H1)
xx = 9-36Vin = 24
xx = 18-72Vin = 48

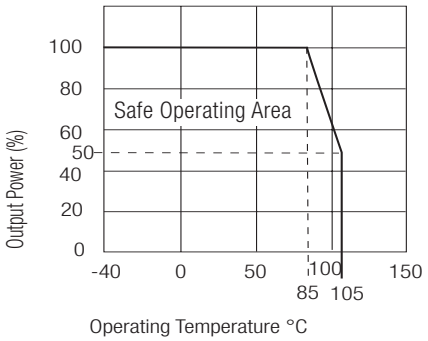
* add suffix "/**A**", "/**B**" or "/**C**" for Pinning, see next page
* add suffix "/**M**" for metal case
e.g. REC2.2-2412SRW/H1/AM = / Pinout "**A**" / metal case.

# REC2.2-S_DRW/H1 Series

## Specifications (Core Operating Area)

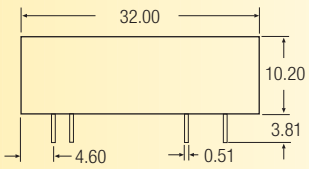
| | | |
|---|---|---|
| Input Voltage Range | | 2:1 & 4:1 |
| Output Voltage Accuracy | | ±1% max. |
| Line Regulation (HL-LL) | 2:1 Input types | ±0.2% max. |
| | 4:1 Input types | ±0.2% max. |
| Load Regulation (for output load current change from 20% to 100%) | | ±0.5% max. |
| Output Ripple and Noise (0,1µF capacitor on output, 20MHz BW) | | 50mVp-p max. |
| Switching Frequency at Full Load | 2:1 Input types | 90kHz min. / 150kHz max. |
| and nominal Input Voltage | 4:1 Input types | 120kHz min. / 180kHz max. |
| Input Filter | | Pi Network |
| Efficiency at Full Load | | 84% max. |
| No Load Power Consumption | | 200mW typ. |
| Isolation Voltage SMD Pinout and metal case (see note1) | (tested for 1 second) | 1.000VDC min. |
| Rated Working Voltage | (long term isolation) | see Application Notes |
| Isolation Capacitance | 2:1 Input types | 20pF min. / 60pF max. |
| | 4:1 Input types | 40pF min. / 80pF max. |
| Isolation Resistance | | 1 GΩ min. |
| Short Circuit Protection | | Continuous |
| Operating Temperature Range (free air convection) | | -40°C to +85°C (see Graph) |
| Storage Temperature Range | | -55°C to +125°C |
| Relative Humidity | MSL Level 1 | 95% RH |
| Case Material | | Non-Conductive Plastic |
| Thermal Impedance | Natural convection | 20°C/W for metal case |
| Package Weight | | 12 g |
| MTBF (+25°C) } *Detailed Information see* | using MIL-HDBK 217F | 1102 x $10^3$ hours |
| (+85°C) } *Application Notes chapter "MTBF"* | using MIL-HDBK 217F | 186 x $10^3$ hours |

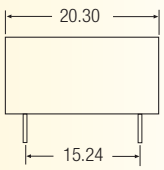
## Derating-Graph
(Ambient Temperature)



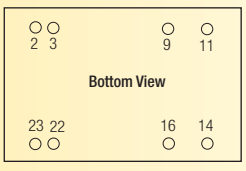

## Package Style and Pinning (mm) DIP 24 , Wide Input 2:1 & 4:1

### Package A

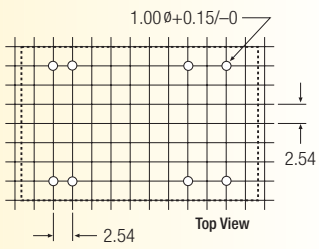



3rd angle projection




**Recommended Footprint Details**




**Pin Connections**

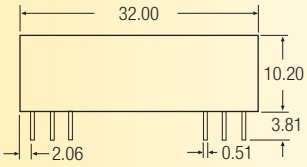
| Pin # | Single | Dual |
|---|---|---|
| 2 | –Vin | –Vin |
| 3 | –Vin | –Vin |
| 9 | NC | Com |
| 11 | NC | –Vout |
| 14 | +Vout | +Vout |
| 16 | – Vout | Com |
| 22 | +Vin | +Vin |
| 23 | +Vin | +Vin |

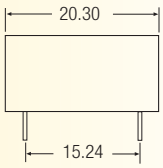
NC = No Connection
XX.X ± 0.5 mm
XX.XX ± 0.25 mm

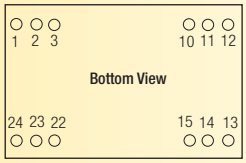
# REC2.2-S_DRW/H1 Series

## Package Style and Pinning (mm) DIP 24 , Wide Input 2:1 & 4:1

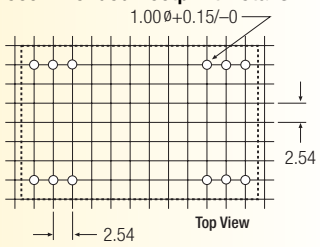
### Package B




Recommended Footprint Details



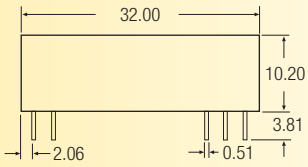

3rd angle projection

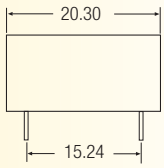
**Pin Connections**

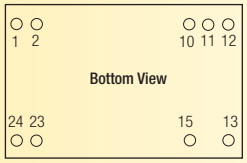
| Pin # | Single | Dual |
|---|---|---|
| 1 | +Vin | +Vin |
| 2 | No Pin | –Vout |
| 3 | No Pin | Com |
| 10 | –Vout | Com |
| 11 | + Vout | + Vout |
| 12 | –Vin | –Vin |
| 13 | –Vin | –Vin |
| 14 | + Vout | + Vout |
| 15 | –Vout | Com |
| 22 | No Pin | Com |
| 23 | No Pin | –Vout |
| 24 | +Vin | +Vin |

XX.X ± 0.5 mm
XX.XX ± 0.25 mm

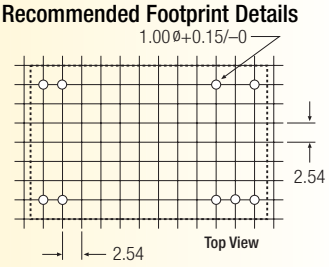
### Package C




Recommended Footprint Details

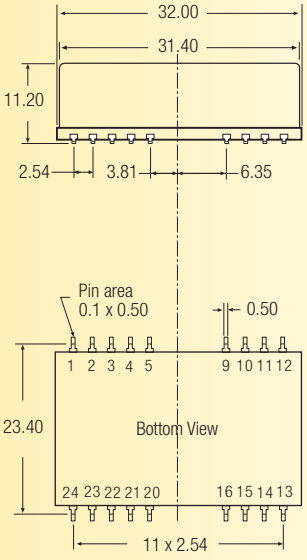


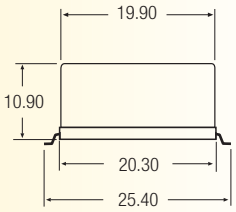

**Pin Connections**

| Pin # | Single | Dual |
|---|---|---|
| 1 | +Vin | +Vin |
| 2 | +Vin | +Vin |
| 10 | NC | Com |
| 11 | NC | Com |
| 12 | –Vout | NC |
| 13 | + Vout | –Vout |
| 15 | NC | +Vout |
| 23 | –Vin | –Vin |
| 24 | –Vin | –Vin |

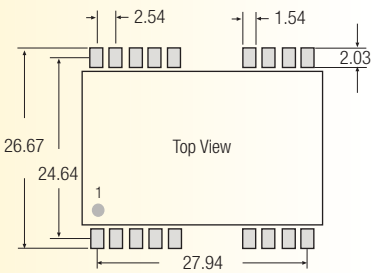
NC = No Connection
XX.X ± 0.5 mm
XX.XX ± 0.25 mm

## Mechanical drawings of DIP24 SMD case




Recommended Footprint Details




Tol.: ± 0.35 mm

length of plastic case is 31,8mm, length of metal case 32.0mm